Claim Amendments

1) (Currently Amended) An epicyclic gear transmission comprising:

a sun gear having a center axis;

a ring gear having a center axis, the ring gear center axis being coaxial with the sun gear center axis; [[and,]]

a plurality of planet gears having center axes that are parallel with the center axis of the sun gear and the ring gear, the plurality of planet gears being spacially arranged around the sun gear, at least some of the plurality of planet gears meshing with the sun gear, and the planet gears meshing with the sun gear having peripheries that are interleaved;

the ring gear being one of a pair of fixed ring gears;

at least two planet gears on each planet gear shaft meshing with the pair of ring gears; and,

the two planet gears on each planet gear shaft that mesh with the pair of ring gears being helical gears with opposite hand helical gear teeth.

2) (Currently Amended) The epicyclic gear transmission of Claim 1, further comprising:

an input shaft connected to the sun gear for rotating the sun gear~~; and,~~

~~the ring gear being fixed~~.

3) (Cancelled).

4) (Currently Amended) The epicyclic gear transmission of Claim [[3]] 2, further comprising:

the planet gears meshing with the sun gear being the largest planet gears on the planet gear shafts.

5) (Cancelled).

6) (Cancelled).

7) (Currently Amended) ~~The epicyclic gear transmission of Claim 6, further comprising:~~

An epicyclic gear transmission comprising:

a sun gear having a center axis;

a ring gear having a center axis, the ring gear center axis being coaxial with the sun gear center axis;

a plurality of planet gears having center axes that are parallel with the center axis of the sun gear and the ring gear, the plurality of planet gears being spacially arranged around the sun gear, at least some of the plurality of planet gears meshing with the sun gear, and the planet gears meshing with the sun gear having peripheries that are interleaved;

an input shaft connected to the sun gear for rotating the sun gear;

the ring gear being fixed;

the plurality of planet gears being mounted on a plurality of planet gear shafts

with at least two planet gears of the plurality of planet gears being mounted on each planet gear shaft;

the ring gear being one of a pair of fixed ring gears;

at least two planet gears on each planet gear shaft meshing with the pair of ring gears; and,

the two planet gears on each planet gear shaft that mesh with the pair of ring gears being helical gears with opposite hand helical gear teeth.

8) (Currently Amended) The epicyclic gear transmission of Claim [[3]] 2, further comprising:

a first planet gear of the at least two planet gears on each planet gear shaft meshing with only the sun gear and a second planet gear of the at least two planet gears on each planet gear shaft meshing with only ~~the~~ one ring gear.

9) (Original) The epicyclic gear transmission of Claim 8, further comprising:

the first planet gear being larger than the second planet gear.

10) (Currently Amended) The epicyclic gear transmission of Claim 8, further comprising:

~~the ring gear being one of a pair of ring gears; and,~~

the second planet gear of the at least two planet gears on each planet gear shaft meshes with only the one ring gear and a third planet gear on each planet gear shaft meshes with only an other ring gear of the pair of ring gears.

11) (Currently Amended) ~~The epicyclic gear transmission of Claim 3, further comprising:~~

An epicyclic gear transmission comprising:

a sun gear having a center axis;

a ring gear having a center axis, the ring gear center axis being coaxial with the sun gear center axis;

a plurality of planet gears having center axes that are parallel with the center axis of the sun gear and the ring gear, the plurality of planet gears being spacially arranged around the sun gear, at least some of the plurality of planet gears meshing with the sun gear, and the planet gears meshing with the sun gear having peripheries that are interleaved;

an input shaft connected to the sun gear for rotating the sun gear;

the ring gear being fixed;

the plurality of planet gears being mounted on a plurality of planet gear shafts with at least two planet gears of the plurality of planet gears being mounted on each planet gear shaft;

a carrier supporting each of the planet gear shafts for rotation of the planet gear shafts relative to the carrier; and,

a single bearing assembly on each planet gear shaft mounting the planet gear shaft on the carrier.

12) (Original) The epicyclic gear transmission of Claim 11, further comprising:

the ring gear being one of a pair of fixed ring gears; and,

at least two planet gears on each planet gear shaft meshing with the pair of ring gears, the at least two planet gears on each shaft being positioned on axially opposite sides of the bearing assembly on each planet gear shaft.

13) (Original) The epicyclic gear transmission of Claim 1, further comprising:

the epicyclic gear transmission being a rotor transmission of a rotary wing aircraft.

14) (Currently Amended) An epicyclic gear transmission comprising:

a sun gear having a center axis;

a ring gear having a center axis, the ring gear center axis being coaxial with the sun gear center axis;

a plurality of planet gears having center axes that are parallel with the center axis of the sun gear and the ring gear, the plurality of planet gears being spacially arranged around and meshing with the sun gear with adjacent planet gears meshing with the sun gear being axially staggered;

the plurality of planet gears being mounted on a plurality of planet gear shafts with at least two planet gears of the plurality of planet gears being mounted on each planet gear shaft;

a carrier supporting each of the planet gear shafts for rotation of the planet gear shafts relative to the carrier; and,

a single bearing assembly on each planet gear shaft mounting the planet gear shaft on the carrier.

15) (Original) The epicyclic gear transmission of Claim 14, further comprising:

the sun gear being driven by an input shaft; and,

the ring gear being fixed.

16) (Currently Amended) The epicyclic gear transmission of Claim 15, further comprising:

~~the plurality of planet gears being mounted on a plurality of planet gear shafts, the planet gear shafts having center axes that are parallel with the sun gear and ring gear axis, and~~ the axially staggered adjacent planet gears meshing with the sun gear being mounted on adjacent planet gear shafts.

17) (Currently Amended) The epicyclic gear transmission of Claim 15, further comprising:

~~the plurality of planet gears being mounted on a plurality of planet gear shafts with at least two planet gears being mounted on each planet gear shaft and~~ the planet gears meshing with the sun gear being the largest planet gears on each planet gear shaft.

18) (Currently Amended) The epicyclic gear transmission of Claim 15, further comprising:

the ring gear being one of a pair of fixed ring gears; and,

~~the plurality of planet gears being mounted on a plurality of planet gear shafts with~~ at least two planet gears on each planet gear shaft meshing with the pair of ring gears.

19) (Currently Amended) ~~The epicyclic gear transmission of Claim 18, further comprising:~~

An epicyclic gear transmission comprising:

a sun gear having a center axis;

a ring gear having a center axis, the ring gear center axis being coaxial with the sun gear center axis;

a plurality of planet gears having center axes that are parallel with the center axis of the sun gear and the ring gear, the plurality of planet gears being spacially arranged around and meshing with the sun gear with adjacent planet gears meshing with the sun gear being axially staggered;

the sun gear being driven by an input shaft;

the ring gear being fixed;

the ring gear being one of a pair of fixed ring gears;

the plurality of planet gears being mounted on a plurality of planet gear shafts with at least two planet gears on each planet gear shaft meshing with the pair of ring gears; and,

the two planet gears on each planet gear shaft that mesh with the pair of ring gears being helical gears with opposite hand helical gear teeth.

20) (Original) The epicyclic gear transmission of Claim 18, further comprising:

the plurality of planet gears that mesh with the sun gear do not mesh with the pair of ring gears.

21) (Original) The epicyclic gear transmission of Claim 14, further comprising:

the epicyclic gear transmission being a rotor transmission of a rotary wing aircraft.

22) (New) The epicyclic gear transmission of Claim 7, further comprising:

the epicyclic gear transmission being a rotor transmission of a rotary wing aircraft.

23.) (New) The epicyclic gear transmission of Claim 11, further comprising:

the epicyclic gear transmission being a rotor transmission of a rotary wing aircraft.

24) (New) The epicyclic gear transmission of Claim 19, further comprising:

the epicyclic gear transmission being a rotor transmission of a rotary wing aircraft.